WHAT IS CLAIMED IS:

No.____).

	1. A substantially pure Type II restriction
	endonuclease obtainable from Bacillus
5	thermoglucosidasius 36A (ATCC Accession No)
	recognizing the following base sequence in double-
	stranded deoxyribonucleic acid molecules:
	5'-GCGATGNNNNNNNNNN\ -3' (SEQ ID NO:9)
	3′-CGCTACNNNNNNNNNNNNNNN\↑-5′
10	and having a cleavage position defined by the arrows
	2. A method for obtaining the Type II restriction
	endonuclease of claim 2, comprising cultivating a sample
	of Bacillus thermoglucosidasius 36A under conditions
15	favoring the production of said endonuclease and
	separating said endonuclease therefrom.
	3. The Type II restriction endonuclease of claim
	1, wherein the restriction endonuclease is purified from
20	Bacillus thermoglucosidasius 36A (ATCC Accession